Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449 A/PTO

## FORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: 09/868,667

Filing Date: 02/08/1999

First Named Inventor: Lannert

Group Art Unit: n/a Examiner Name: n/a

Attorney Docket Number: 05222.00179

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_\_\_\_\_

U.S. PATENT DOCUMENTS							
Examiner Initials *	Cite No.1	Document Number  Number - Kind Code <sup>2</sup> ( <i>if known</i> )	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan Passages or Relevant Figures Appear		
(4E)	<u> </u>	US-4,622,013	11/11/1986	Cherchio	Figures Appear		
7		US- 4,874,784	10/17/1989	Clancey			
1-		US- 4,981,766	01/02/1990	Derr, et al.			
$\dashv$		US- 4,931,950	06/05/1990	Isle, et al.			
		US- 4,964,077	10/16/1990	Eisen, et al.	SECENTED.		
		US- 4,977,529	12/11/1990	Gregg, et al.	RECEIVE		
_		US- 5,002,491	03/26/1991	Abrahamson, et al.	0.0002		
		US- 5,170,464	12/08/1992	Hayes, et al.	MAR & 9 ZUUL		
		US- 5,189,402	02/23/1993	Naimark, et al.	echnology Center 2100		
		US- 5,208,745	05/04/1993	Quentin, et al.	Sphology Center 2199		
		US- 5,208,898	05/04/1993	Funabashi, et a	Edilla a 3		
		US- 5,239,617	08/24/1993	Gardner, et al.			
		US- 5,259,766	11/09/1993	Sack et al.			
		US- 5,267,865	12/07/1993	Lee, et al.			
		US- 5,310,349	05/10/1994	Daniels, et al.			
1		US- 5,311,422	05/10/1994	Loftin, et al.			
Ì		US- 5,317,688	05/31/1994	Watson, et al.			
		US- 5,326,270	07/05/1994	Ostby, et al.	6.3		
		US- 5,359,701	10/25/1994	Chiang, et al.			
A	l	US- 5,372,507	12/13/1994	Goleh	8, 63		

		FOREIGN PA	TENT DOCU	MENTS	34	_ د -
		Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines,	(=
Examiner Initials*	Cite No. <sup>1</sup>	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Applicant of Cited  Document	Where Relevant Relevant Passages or Relevant Figures Appear	ر. T <sup>6</sup>
		EP 0 689 132 A2	12/27/95	Laffra		
		EP 0 710 942 A2	05/08/96	Siefert		
	-	EP 0 710 942 A2	05/08/96	Siefert		
		EP 0 798 655 A2	10/01/97	Jervis, et al.		
		WO 00/04478	01/27/00	Jonsson		
	18111	WO 97/44766	11/27/97	Cook		,
		WO 98/03953	01/29/98	Simmons		
<b>_</b>	1	WO 98/25251	06/11/98	Но		
<u> </u>		WO 98/32109	07/23/98	De Lange		

Examiner Signature	Sischer Estites, St.	Date Considered	11 January 2444

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Applicant's unique citation designation number (optional) . <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

nder the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449 A/PTO

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_\_\_

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: 09/868,667

Filing Date: 02/08/1999

First Named Inventor: Lannert

Group Art Unit: n/a Examiner Name: n/a

Attorney Docket Number: 05222.00179

RECEIVED

MAR: 2 9) 2002

Technology, Centerr2100

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS					
xaminer	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²				
(2)		"Evaluating the effectiveness of feedback in SQL-tutor", IEEE, proc. Int. workshop IWALT, pp 143-144					
		"Automated Exercise Progression in Simulation-Based Training," IEEE Trans. On Systems, Man, and Cybernetics, Vol. 24(6), pp. 863-74, June 1994					
		"ACM Transactions on Information Systems," 1988 at www.acm.org/pubs/toc/Abstracts/tois/59298.html					
		The Virtual Classroom: Great Expectations. Delivering Graduate Education by Computer: A Success Sto0ry, 1996.					
		"A Special Section Goal Based Scenarios: A New Approach to Professional Education: Reengineering Education at Andersen Consulting," Educational Technology, NovDec. 1994					
		"Goal-Based Scenarios and the Problem of Situated Learning: A Commentary on Andersen Consulting's Design of Goal-Based Scenarios," Educational Technology, NovDec. 1994					
		"DDDA Free Graphical Front-End for UNIX Debuggers," Jan. 1996, ACM Sigplan Notices, Vol. 31, No. 1, pp. 22-27					
		"Automated Training of Legal Reasoning" at http://www.bileta.ac.uk/94papers/muntjew.html	•				
		"The Virtual Learning Environment System," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 2, Nov. 4-7, 1998					
P		"Developing a Design System into an Intelligent Tutoring System," Int'l J. Engr. Eud., Vol. 13(5), pp-341-46, Dec. 1997	7				
A		*CAPTOR a model for delivering web based intelligent tutoring system technology", IEEE Proc. DASC vol. 2, pp 5.C.4.1-5	ĺ				
			_				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

der the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute form 1449 A/PTO

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_

## THE ORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: 09/868,667

Filing Dat: 02/08/1999
First Named Inventor: Lannert

Group Art Unit: n/a Examiner Name: n/a

Attorney Docket Number: 05222.00179

RECEIVED

MAR 2 9 2002

Technology Center 2100

03

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2
54		"Bridging the Virtual and the Physical: The InterSim as a Collaborative Support Interface," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 556-58, Dec. 1997	
		"Task-Oriented Learning on the Web"; Innovations in Education and Training International, Vol. 36, No. 1, Feb. 1999	
		"Applications of BrainMaker Neural Network to stocks, business, medical, manufacturing" at www.calsci.com/Applications.html	
		"KBLPS Overview" at www.cgi.com/CGIWEB/KBLPS/overindex4.html	
		"Smartlaw: adapting classic expert system techniques for the legal research domain", ACM pp 133-141	
		"Interactive Multimedia Instructs the Individual," Oct. 1994, Occupational Health & Safety Vol. 63, No. 10, pp. 144-145	
		"Practical methods for automatically generating typed links", ACM Hypertext, pp 31-41	
	-	"Popular Theory Supporting the Use of Computer Simulation for Experiential Learning," http://www.centurionsys.com/rtcl57.html, Aug. 1997	
		"Technical Report: Computer Aided Education and Training Initiative" at http://advlearn.irdc.pitt.edu/advlearn/papers/FINALREP.html	

Examiner Signature	Sr.	Date Considered	11 Januar	ر مصر	,00	FEB	
				,	*		

"FRA: Teaching Financial Accounting with a Goal-Based Scenario," Intelligent Systems in Accounting, Finance and Management, Vol. 4, 1995

"Teaching Real-World Analysis Skills for Goal-Based Scenario," pp. 68-74

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

ute for form 1449 A/PTO

(Use as many sheets as necessary)

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: 09/868,667

Filing Dat : 02/08/1999

First Named Inventor: Lannert

Group Art Unit: n/a Examiner Name: n/a

Attorney Docket Number: 05222.00179

Sheet	of	

			U.S. PATENT I	DOCUMENTS	
Examiner Initials *	Cite No.1	Document Number  Number - Kind Code <sup>2</sup> ( <i>if known</i> )	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan Passages or Relevant Figures Appear
Ales)		US-5,395,243	03/07/1995	Lutbin, et al.	
7		US- 5,441,415	08/15/1995	Lee, et al.	
		US- 5,491,743	02/13/1996	Shilo, et al.	
		US- 5,533,903	07/09/1996	Kennedy	
$\top$		US- 5,535,422	07/09/1996	Chang, et al.	
		US- 5,537,141	07/16/1996	Harper, et al.	
		US- 5,539,869	07/23/1996	Spoto, et al.	
1		US- 5,566,291	10/15/1996	Boulton, et al.	
		US- 5,576,844	11/19/1996	Anderson, et al.	
		US- 5,577,186	11/19/1996	Mann II, et al.	
		US- 5,597,312	01/28/1997	Bloom, et al.	0440 0 0 0000
		US- 5,616,033	04/01/1997	Kerwin	MAR 2 9 2002
		US- 5,644,686	07/01/1997	Hekmatpour	
		US- 5,644,727	07/01/1997	Atkins	Technology Center 2
		US- 5,673,369	09/30/1997	Kim	
		US- 5,690,496	11/25/1997	Kennedy	
		US- 5,696,885	12/09/1997	Hekmatpour	
7		US- 5,701,400	12/23/1997	Amado	
77		US- 5,720,007	02/17/1998	Hekmatpour	
A		US- 5,727,161	03/10/1998	Purcell, Jr.	

		FOREIGN PA	TENT DOCU	MENTS		
	0	Foreign Patent Document	D. Indianalian	Name of Patentee or	Pages, Columns, Lines, Where Relevant	
Examiner Initials*	and a last 1 d	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> ( <i>if known</i> )	Publication Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	T <sub>6</sub>
					37	
					0	ا بد
				11,00	7	$\omega$
1					•	In I
						*41
						13 [
		11.00			0	5 C
					9	
		1				

		7000			
Examiner Signature	J. Service C.		Date Considered	11 January	Sood

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Applicant's unique citation designation number (optional) . <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

for form 1449 A/PTO

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_\_\_\_

### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: 09/868,667

Filing Dat: 02/08/1999 First Named Inventor: Lannert

Group Art Unit: n/a Examiner Name: n/a

Attorney Docket Number: 05222.00179

RECEIVED

MAR 2 9 2002

Technology Center 2100

U.S. PATENT DOCUMENTS							
Examiner	Cite	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan		
Initials *	No.1	Number - Kind Code <sup>2</sup> (if known)	WIWI-DD-1111		Figures Appear		
14		US-5,727,950	03/17/1998	Cook, et al.			
		US- 5,745,652	04/28/1998	Bigus			
		US- 5,772,446	06/30/1998	Rosen			
		US- 5,779,468	07/14/1998	Ho, et al.			
		US- 5,788,508	08/04/1998	Lee, et al.			
		US- 5,791,907	08/11/1998	Ramshaw, et al.			
1	1	US- 5,799,151	08/25/1998	Hoffer			
		US- 5,799,292	08/25/1998	Hekmatpour			
		US- 5,806,056	09/08/1998	Hekmatpour			
		US- 5,810,747	09/22/1998	Brudney, et al.			
		US- 5,822,745	10/13/1998	Hekmatpour			
		US- 5,823,781	10/20/1998	Hitchcock, et al.			
		US- 5,823,788	10/20/1998	Lemelson, et al.			
		US- 5,835,683	11/10/1998	Corella, et al.			
		US- 5,868,575	02/09/1999	Kuczewski			
	ĺ	US- 5,870,768	02/09/1999	Hekmatpour			
		US- 5,875,437	02/23/1999	Atkins			
4		US- 5,889,845	03/30/1999	Staples, et al.			
17		US- 5,893,123	04/06/1999	Tuinenga			
V -		US- 5,911,581	06/15/1999	Knight Jeremy, et al.			

	FOREIGN PATENT DOCUMENTS							
		Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines,			
Examiner Initials*	Cite No. <sup>1</sup>	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> ( <i>if known</i> )	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>		
						-		
					T'C			
					3			
					00	<u> </u>		
					1.4	7		

						-		
Examiner Signature	Sittal 5775	S	Date Considered	115 anvary	2004	. Ro	2002	(13/6)

EXAMINER: Initial if reference considered, whether or not ofation is in conformance with MPEP 609. Draw line through citation in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark

<sup>&</sup>lt;sup>1</sup> Applicant's unique citation designation number (optional) . <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <u>www.uspto.gov</u> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the senal number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

or form 1449 A/PTO

### MATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: 09/868,667

Filing Date: 02/08/1999 First Named Inventor: Lannert

Group Art Unit: n/a Examiner Name: n/a

Attorney Docket Number: 05222.00179

RECEIVED

MAR 2 9 2002

Technology Center 2100

(Use as many sheets as necessary)						
Sheet	_ of					

	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS							
Examiner Cite Initials * No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.						
Sy		"Artificial Intelligence and Mathematics Education" at http://www.rand.org/hot/mcarthur/Papers/aied.html						
		"The Roles of Artificial Intelligence in Education: Current Progress and Future Prospects" at http://www.nib.unicamp.br/recursoseducation/intelligent-tutoring.html						
		"WITS: A Reusable Architecture for a VR-Based ITS" at http://advleam.lrdc.pitt.edu/its-arch/papers/tam.html						
		"Brainmaker" at www.npiec.on.ca/~echoscan/28-04.htm						
		"News for ESAP" at www.hops.wharton.upenn.edu/~esap/news.html						
		"Learning with Computers," May 1994, Accountancy Vol. 113, No. 1209, pp. 60-64						
		"User-Sensitive Multimedia Presentation System," March 1, 1996, Vol. 39, No. 3, pp. 93-94						
		"Microworlds and Simuworlds: Practice Fields for the Learning Organization," Spring 1996, Organizational Dynamics Vol. 24, No. 4, pp. 36-49						
P		"What are Intelligent Coaching Systems and Why are they (in)evitable?" IEEE Colloquium on Artificial Intelligence in Educational Software, pp. 2/1-2/5, June 1998						
		"Development of an Integrated Simulator and Real Time Plant Information System," Advances in Operational Safety of Nuclear Power Plants, Proceedings of an International Symposium 1996.						

Sidilalule	Sixulation St.	Date Considered	11 January 2004

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

behivte for form 1449 A/PTO

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_\_\_\_

# NFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: 09/868,667

Filing Date: 02/08/1999

First Named Inventor: Lannert

Group Art Unit: n/a Examiner Name: n/a

Attorney Docket Number: 05222.00179

RECEIVED

79 MAR 2 9 2002 Technology Center 2100

U.S. PATENT DOCUMENTS								
Examiner Cite		Document Number	Publication Date	Name of Patentee or Applicant of	Pages, Columns, Lines, Where Relevar			
Initials *	No.1	Number - Kind Code <sup>2</sup> (if known)	MM-DD-YYYY	Cited Document	Passages or Relevant Figures Appear			
(4)		US-5,974,446	10/26/1999	Sonnenreich, et al.				
		US- 5,987,443	11/16/1999	Nichols, et al.				
		US- 6,003,021	12/14/1999	Zadik, et al.				
		US- 6,015,348	01/8/2000	Lambright, et al.				
		US- 6,016,486	01/18/2000	Nichols				
		US- 6,018,730	01/25/2000	Nichols, et al.				
		US- 6,018,731	01/25/2000	Bertrand, et al.				
		US- 6,018,732	01/25/2000	Bertrand, et al.				
		US- 6,023,691	02/08/2000	Bertrand et al.				
		US- 6,023,692	02/08/2000	Nichols				
		US- 6,026,386	02/15/2000	Lannert, et al.				
		US- 6,029,156	02/22/2000	Lannert, et al.				
		US- 6,029,158	02/22/2000	Bertrand, et al.				
	<u> </u>	US- 6,029,159	02/22/2000	Zorba, et al.				
		US- 6,032,141	02/29/2000	O'Connor, et al.				
		US- 6,064,998	05/16/2000	Zabloudil, et al.				
		US- 6,067,537	05/23/2000	O'Connor, et al.				
		US- 6,067,538	05/23/2000	Zorba, et al.				
4		US- 6,073,127	06/06/2000	Lannert, et al.				
77		US- 6,085,184	07/04/2000	Bertrand, et al.				

	FOREIGN PATENT DOCUMENTS							
Furnism Oite		Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines, Where Relevant			
Examiner Initials*	Cite No.1	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> ( <i>if known</i> )	Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	T <sup>6</sup>		
	L							
1								

						-	
Examiner		65	Date			0	
Signature	Signification STITES	$\mathcal{J}_{\mathcal{E}}$	Considered	11 January.	2004	(·)	
						$\sim$ 7	

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the inductual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patern and Trademark

EXAMINER: Initial if reference considered, whether or not ditation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Applicant's unique citation designation number (optional) . <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or <a href="https://mww.uspto.gov">MPEP 901.04.</a> 1 1 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year office reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

der the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_\_\_\_

### THE PRINCIPLE OF THE PR STATEMENT BY APPLICANT

Application Number: 09/868,667

Filing Date: 02/08/1999

First Named Inventor: Lannert

Group Art Unit: n/a Examiner Name: n/a

Attorney Docket Number: 05222.00179

RECEIVED

MAR 2 9 2002

Technology Center 2100

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS		
Examiner Cite Initials No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
50		"A Goal-Centered Architecture for Intelligent Tutoring Systems," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 307-314, Aug. 1995		
		"Smart Avatars in JackMOO," Proceedings of the 1999 IEEE Conference on Virtual Reality, pp. 156-63		
		"Embedding an Intelligent Tutoring System in a Business Gaming-Simulation Environment," Proc. Of the 1994 Winter Simulation Conference, pp. 1399-1406, Dec. 1994		
		"Evaluating Intelligent Tutoring with Gaming Simulations," Proc. Of the 1995 Winter Simulation Conf., pp. 1376-83, Dec. 1995		
		"Persistent Issues in the Application of Virtual Environment Systems to Training," August 1996, Proceedings. Third Annual Symposium on Human Interaction with Complex Systems, IEEE, pp. 124-32.		
		"The Lisp Tutor," Byte, pp. 159-75, Apr. 1985		
		"Pedagogical, natural language and knowledge engineering techniques in SOPHIE I, II, and III," in Intelligent Tutoring Systems, D. Sleeman & J.S. Brown eds., pp. 227-82, Dec. 1982		
		Interactive Multimedia Distance Learning (IMDL): The Prototype of the Virtual Classroom, 1994.		
		"Understanding Organizational Dynamics of IT-Enabled Change: A Multipedia Simulation Approach," Winter 1997/1998, Journal of Mangement Information Systems: JMIS, Vol. 14, No. 3, pp. 109-140.		
<b>-</b>		"Intelligent Computer-Aided Instruction: A Survey Organized Around System Components," Jan. 1989, IEEE Inc., New York, Vol. 49, No. 1, pp. 40-57.		

Examiner Signature	Sr.	Date Considered	11 5 anua	m 200%	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

> MOOR JIAN 80072 OT LEB 12 SUSS KECEINED

<sup>1</sup> Unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

for form 1449 A/PTO

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_\_\_\_

#### FORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: 09/868,667

Filing Date: 02/08/1999

First Named Inventor: Lannert

Group Art Unit: n/a Examiner Name: n/a

Attorney Docket Number: 05222.00179

RECEIVED

MAR 2 9 2002

Technology Center 2100

U.S. PATENT DOCUMENTS								
Examiner	Cite	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant			
Initials *	No.1	Number - Kind Code <sup>2</sup> (if known)	MM-DD-YYYY		Passages or Relevant Figures Appear			
4		US-6,101,489	08/01/2000	Lannert, et al.				
7		US- 6,125,358	09/26/2000	Hubbell, et al.				
<b>a</b>		US- 6,134,539	10/17/2000	O'Connor, et al.				
8		US-						
		US-						
		US-						
		US-						
		US-						
		US-						
		US-						
*		US-						
	1	US-						
		US-						
		US-						
		US-						
		US-						
		US-						
		US-						
		US-	_					
		US-						

	FOREIGN PATENT DOCUMENTS							
_	<b></b>	Foreign Patent Document	5.15	Name of Patentee or	Pages, Columns, Lines, Where Relevant			
Examiner Initials*	Cite No. <sup>1</sup>	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> ( <i>if known</i> )	Publication Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	Т6		
		<del>-</del>				_		
					· -			

	A LOS		
Examiner Signature	Significant States No.	Date Considered	11 Jany 2004,

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance

<sup>&</sup>lt;sup>1</sup> Applicant's unique citation designation number (optional) . <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04.

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Jananese potent document, by the two-letter code (WIPO Standard ST.3). 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>7</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

best ate for form 1449 A/PTO

Sheet \_\_\_\_\_ of \_\_\_\_

## FORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: 09/868,667

RECEIVED

Filing Dat : 02/08/1999

First Named Inventor: Lannert Group Art Unit: n/a

MAR 2 9 2002

(Use as many sheets as necessary) Examiner Name: n/a
Attorney Docket Number: 05222.00179

This many should as housesary)

Technology Center 2100

	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS				
		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²		
	*Conducting and Supporting a Goal-Based Scenario Learning Environment,* Educational Technology, NovDec. 1994				
١	$\neg$			"Interface design issue for advicing giving expert systems", Comm. Of theACM, vol 30, no. 1, pp14-31	
				"An Object-Oriented Architecture for Evolutional Development of Interactive Learning Environment with Coached Problem-Solving," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 592-94, Dec. 1997	
				"Architecture of an Intelligent Tutoring System on the WWW," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 39-46 Dec. 1997	
İ				"Socialized Collaborative Learning in Multimedia Virtual Worlds" URL: http://www.iscs.nus.edu.sg/labs/learning/lels/VRML.html; viewed Feb. 16, 1999	
				Flexible Learning, Feb. 1998, Credit Union Management Vol. 21, No. 2, pp. 32-33+	
				"Teaching Through Case-Based Reasoning: An ITS Engine Applied to Business Communication," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 111-18 Dec. 1997	
				"Train with Less Pain," Oct. 13, 1997, Informationweek No. 652, pp. 150-154	
l				"Virtual Learning: A Revolutionary Approach to Building a Highly Skilled Workforce," Autumn 1998, Personnel Psychology Vol. 51, No. 3, pp. 767-71	
	4	7			
				"Intelligent Tutoring Systems: An Overview" at http://www.intellectbooks.com/authors/lawler/its.htm	

	Examiner Signature	Significant STATES	Sr.	Date Considered	11 January 2004
--	-----------------------	--------------------	-----	--------------------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number (optional), 2 Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

te for form 1449 A/PTO

### MITORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: 09/868,667

Filing Dat : 02/08/1999

First Named Inventor: Lannert

Group Art Unit: n/a Examiner Name: n/a

itêr 2100

(Use as many sheets as necessary)	Examiner Name: n/a Attorney Docket Number:	_
Sheet of		Technology Center 2

	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS			
Examiner		Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
Se	"No More Boring CPE," July 1997, Accounting Technology, pp. 27-35			
			Computer Dictionary, 1997, pp. 264, 276, 383, 446, 462, 507.	
			"Rule-Based Programming with OPS5" at www.mkp.com/books_catalog/O-934613-51-6.asp	
			"From Computer-Assisted Instruction to Intelligent Tutoring Systems," J. Artificial Intelligence in Education, V. 2(3), pp. 39-50, Dec. 1997	
			"MUSE U.S. Patents" at www.muser.com/html/patents.html	
			"Distributed Intelligent Tutoring on the Web," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 482-89, Dec. 1997	
		•	"RadTutor: The Theoretical and Empirical Basis for the Design of a Mammography Interpretation Tutor," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 386-393 Dec. 1997	
			"Using the Wizard of Oz Technique to Prototype a Scenario-Based Simulation Tutor," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 458-65, Dec. 1997	
			*Using Planning Techniques to Provide Feedback in Interactive Learning Environments,* Proc. Sixth Int'l Conf. On Tools with Artificial Intelligence,* pp. 700-03, Nov. 1994	
1	9		"An Electronic Infrastructure for a Virtual University," Communications of the ACM, Vol. 40, No. 9, Sep. 1997.	
	V		"Simulation Technology and Parallelism in Learning Environments" at http://www.to.utwente.nl/prj/min/Book/chapter1.htm	

	The second secon	<u>/</u>		
Examiner Signature	Significant STATES	Jr.	Date Considered	115 anuam 2004

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449 A/PTO

(Use as many sheets as necessary)

## MFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: 09/868,667

Filing Date: 02/08/1999
First Named Inventor: Lannert

Group Art Unit: n/a Examiner Name: n/a

Attorney Docket Number: 05222.00179

RECEIVED

MAR 2 9 2002

Technology Center 2100

OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS			
Examiner Cite No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
"Engines for Education" URL: http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html; viewed Feb. 15, 1999.			
		"FinPlan System" at www.rriai.org.ru/FinPlan/	
		"Enhancing Simulation Education with Intelligent Tutoring Systems," Proc. Of the 1996 Winter Simulation Conf., pp. 675-80, Dec. 1996	
		"Computer Aided Instruction for Statistics: A Knowledge-Based Systems Approach," Int'l J. of Computers in Adult Education and Training, Vol. 5(1), pp. 3-14.	
		"Teaching with the internet" 1998, JAI Press Inc., USA. Vol no. 3, pp 217-222	
		"Development of a Simulation-Based Intelligent Tutoring System for Assisting PID Control Learning," Jan. 1994, IEICE Transactions on Information and Systems, E77-D, No. 1, Tokyo Japan, pp. 108-17.	
		"Authoring Intelligent Tutoring Systems: An Analysis of the State of the Art" at http://www.cs.umass/edu/~tmurray/papers/ATSummary/AuthTools.html	
		Multimedia Training "Get Lemonade, Not a Lemon!" June 1997, Journal for Quality and Participation vol. 20, No. 3, pp. 22-26	
P		"SMART Evaluation: Cognitive Diagnosis, Mastery Learning & Remediation," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 123-30, Aug. 1995	
V		"Decision Pro3.0" at www.vanguardsw.com/	

	The same of the sa	
Examiner Signature	Sixelle ( 5777 )	Date Considered 11 January 2004



EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449 A/PTO

### MOTORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: 09/868,667

Filing Dat : 02/08/1999

First Named Inventor: Lannert

Group Art Unit: n/a Examiner Name: n/a

Attorney Docket Number: 05222.00179

Sheet	of	

(Use as many sheets as necessary)

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
SPD)		"A Fuzzy Logic-Based Intelligent Tutoring System," Information Processing 92, Vol. II, pp. 66-72, Dec. 1992.	
		"The SimQuest Authoring System for Simulation-Based Discovery Learning," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 79-86, Dec. 1997	
		"A Browser-Based System to Support & Deliver DE," 28th Annual Frontiers in Education Confedence Proceedings, Vol. 1, Nov. 4-7, 1998	VE
		"Goal-Based Scenarios and Business Training: A Conversation with Roger C. Schank," Educational A Roger Schank, Educational Roger Schank, Educationa	2002
		"Automate Your Business Plan" at www.business-plan.com/screen2.htm   Philosophic Com/screen2.htm   Philosophic Com/screen2.htm	iter 21
		"Kiplinger TaxCut Press Releases" at http://www.taxcut.com/taxcut/98press_releases/pr98_nowshipping.html	
		"TurboTax Deluxe Product Information" at http://www.intuit.com/turbotax/prodinfo/ttdlx.html	
		"Why Should the Teens Have All the Best Games? Management Skill with Oil, Health, Housing Games," Computergram Int'l, June 176, 1996	
		"Template Software Business Simulator, Chapter 8, August 1997	
		"Template Software Workflow Simulator, Chapter 8, June 1998	
7		"Goal-Based Scenarios", Technical Report # 36, Northwestern University, The Institute for the Learning Sciences, December 1992, pp. 1-30	

Examiner Signature Date Considered	Jammy 2004
------------------------------------	------------



EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

titute for form 1449 A/PTO

## \*NFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number: 09/868,667

Filing Date: 02/08/1999
First Named Inventor: Lannert

Group Art Unit: n/a Examiner Name: n/a

Attorney Docket Number: 05222.00179

Sheet	of	

(Use as many sheets as necessary)

	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS								
	Examiner Initials_*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>					
	Sup		"Eight Goal-Based Scenario Tools", Technical Report # 67, Northwestern University, The Institute for the Learning Sciences, January 1996, pp. 1-37						
			"A Role for Al in Education: Using Technology to Reshape Education", Northwestern University, The Institute for the Learning Sciences, Journal of Artificial Intelleigence in Education, Winter 1990, January 1990, pp. 1-24 and 2 pgs. of references						
	P	-	"The Design of Goal-Based Scenarios", Technical Report # 39, Northwestern University, The Institute for the Learning Sciences, March 1993, pp. 1-58						
REC									
MAR 2 §									
Technology (			MAR 2 9 2002 Technology Center 21	00					
				-					

Examiner Signature	6.655	Date Considered	11 Janvary	2004
	المستحد المتحدد			

EXAMINER: Initial# reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



<sup>&</sup>lt;sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.